

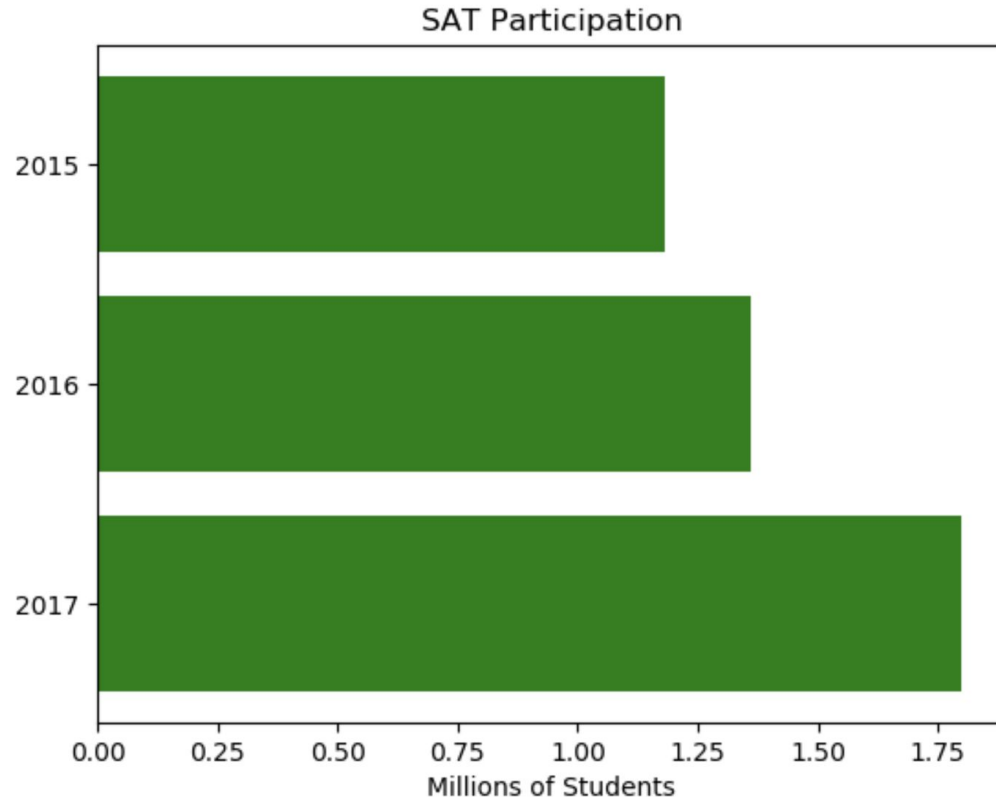


Increasing student participation in the SAT: The Story of Michigan

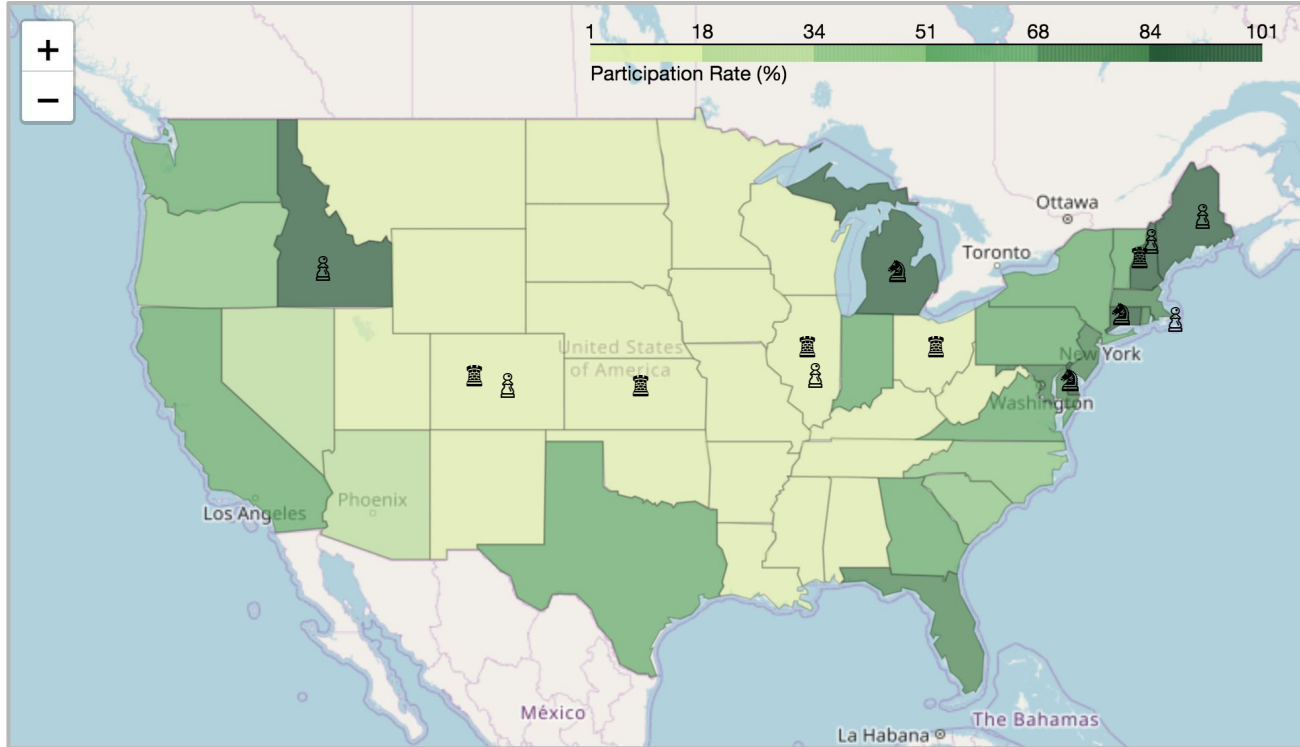
A presentation to the College Board

by — *Mifflin Consulting, LLC*

More students are taking the SAT than ever before



SAT Participation Differs by Regions



Mandatory and free in Connecticut, Delaware, and Michigan

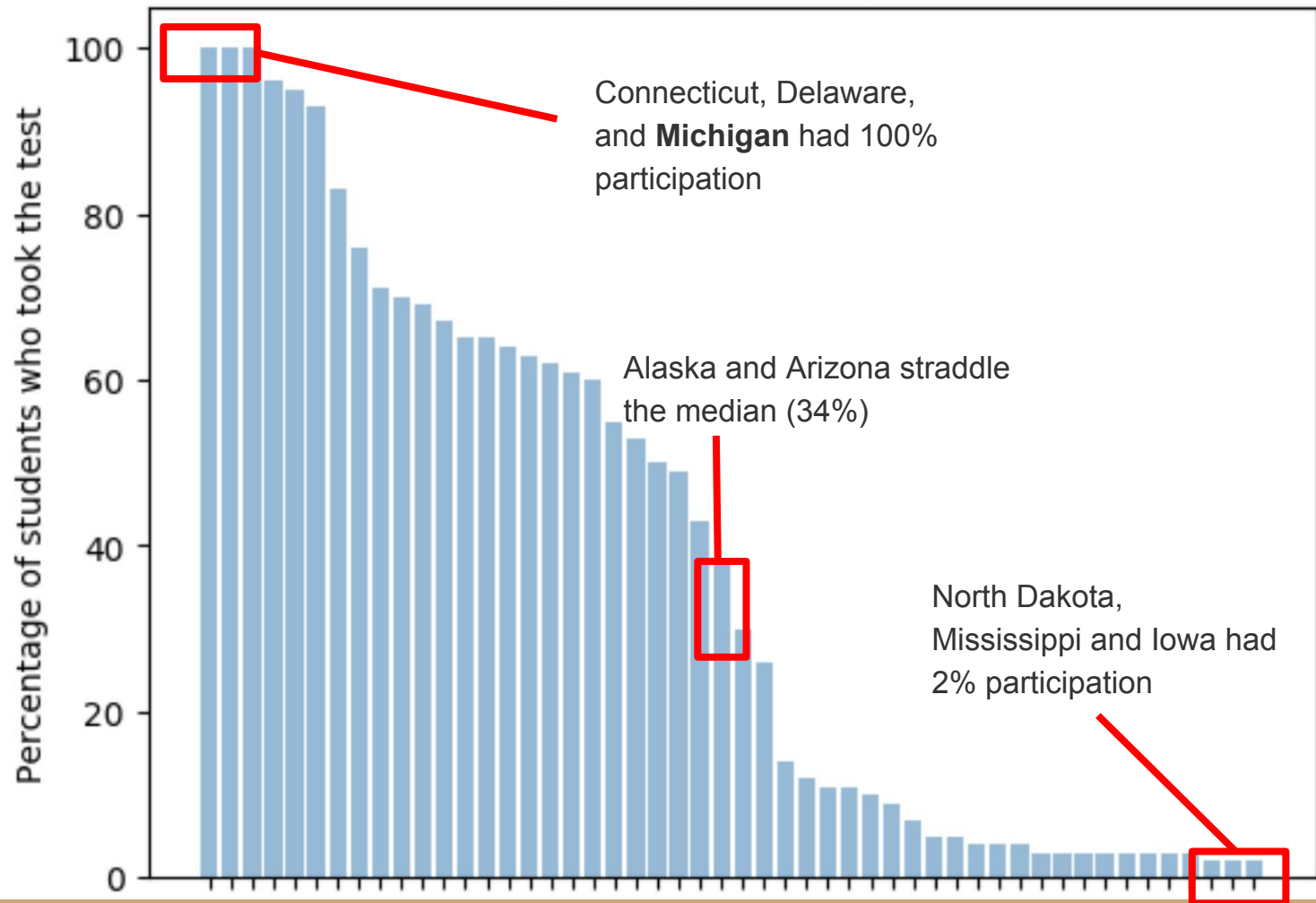


Free in Colorado, Illinois, Ohio, Oklahoma, New Hampshire



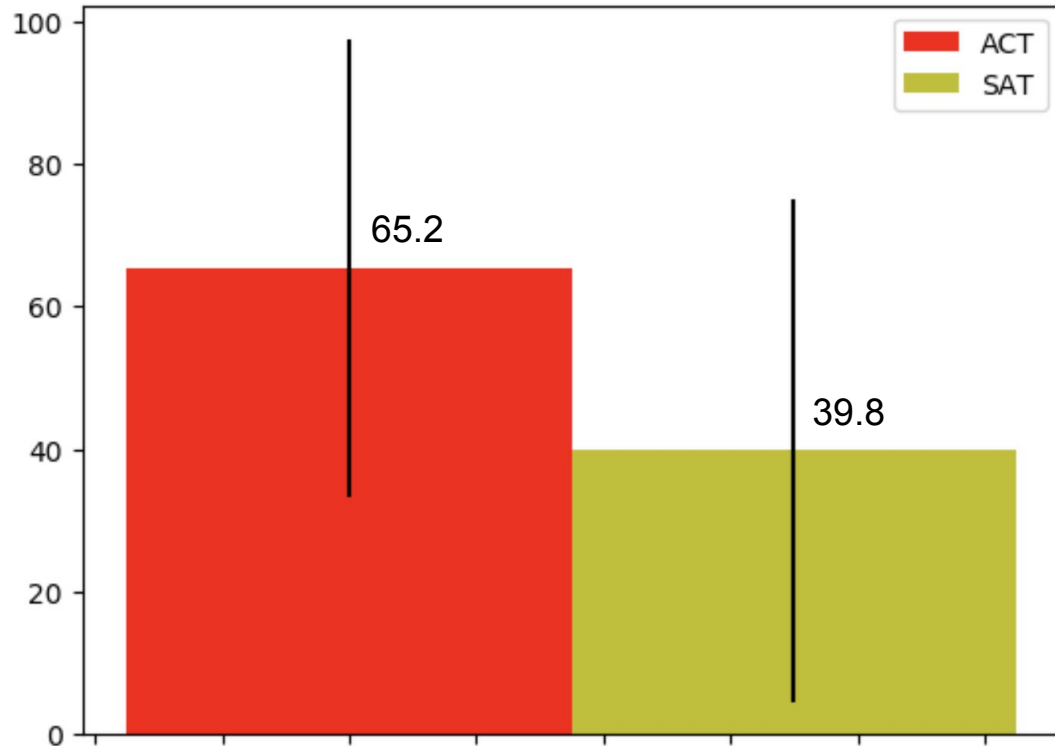
Offered during the school day in Colorado, Idaho, Illinois, Maine, New Hampshire, and Rhode Island

SAT participation, by state



Average ACT participation is much higher than SAT

2017 Test Participation



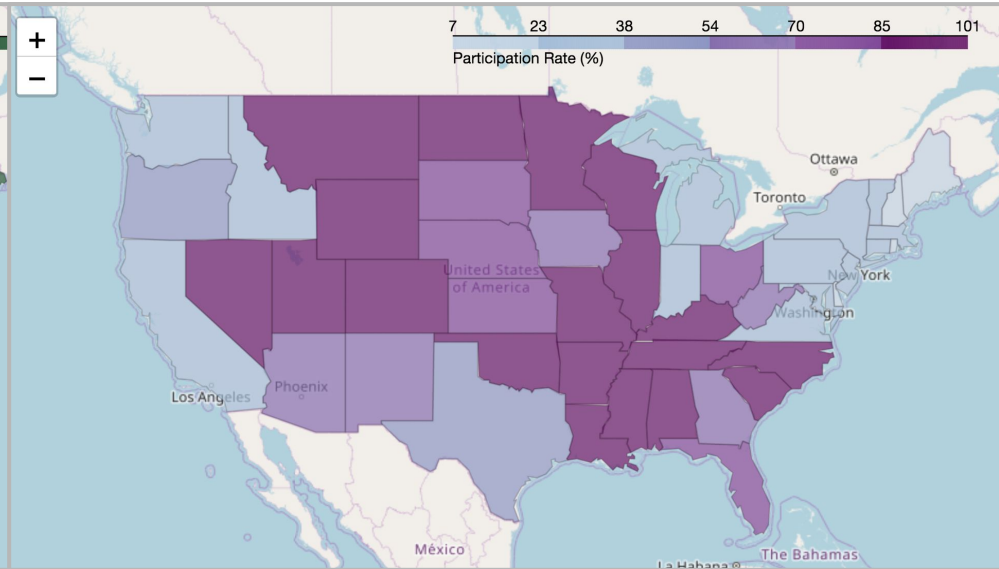
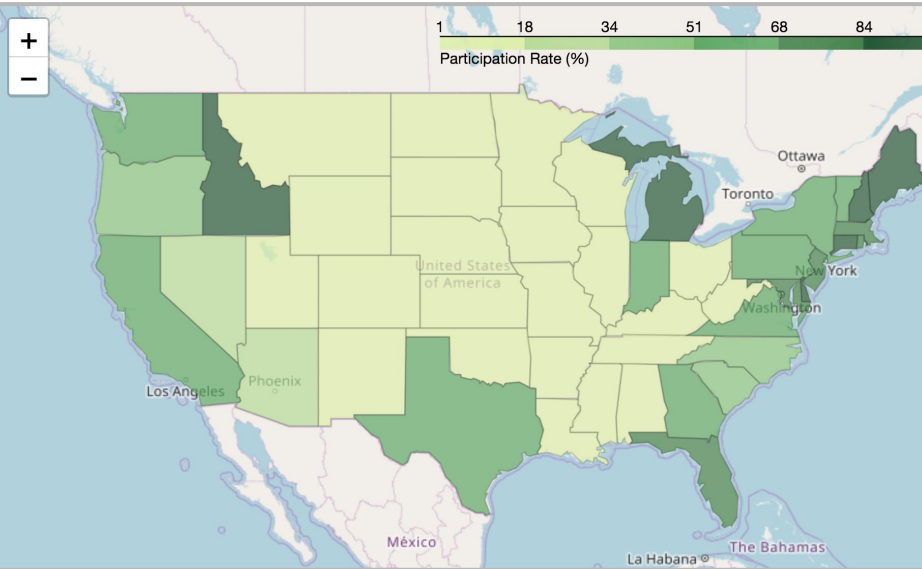
However, SAT dominates in high-population states (CA, NY, FL, TX, MI, IL) so the national rate is very different from the average state rate.

- Note: the black bars indicate the standard deviation (i.e., spread) of individual states' average scores around the mean of all states.

In most states, only one test tends to dominate

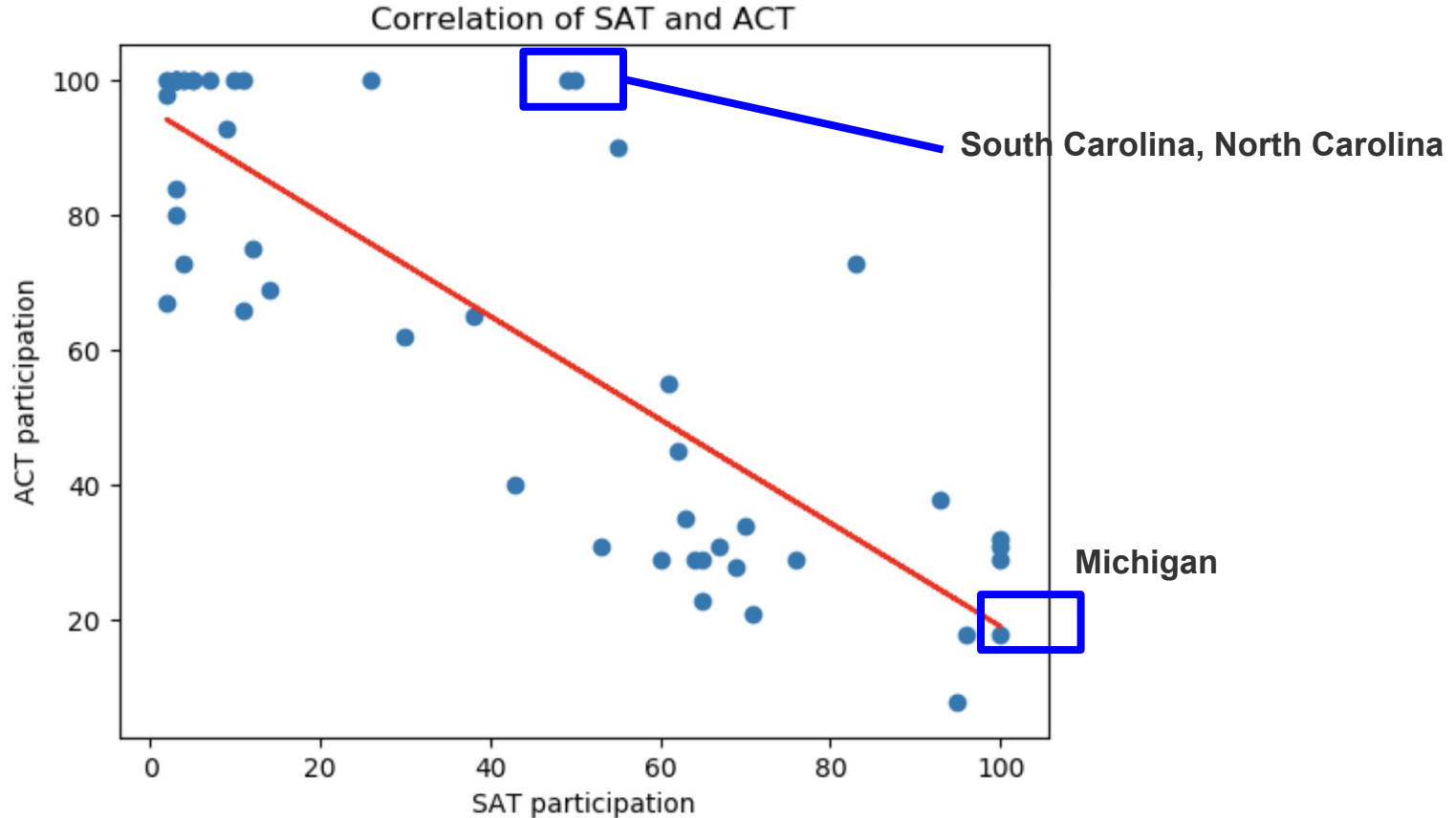
SAT®

ACT®



Interesting fact: In Michigan, the ACT participation rate dropped from 100% in 2015 to only 29% in 2017 -- the same year that the SAT replaced it as the state's mandatory high school exam!

As ACT participation goes up, SAT tends to go down



Correlation between SAT and ACT participation

	ACT_English	ACT_Math	ACT_Participate
ACT_English	1.000000	0.967803	-0.843501
ACT_Math	0.967803	1.000000	-0.861114
ACT_Participate	-0.843501	-0.861114	1.000000
SAT_English	-0.461345	-0.486126	0.716153
SAT_Math	-0.420673	-0.420456	0.682572
SAT_Participate	0.686889	0.710697	-0.841234

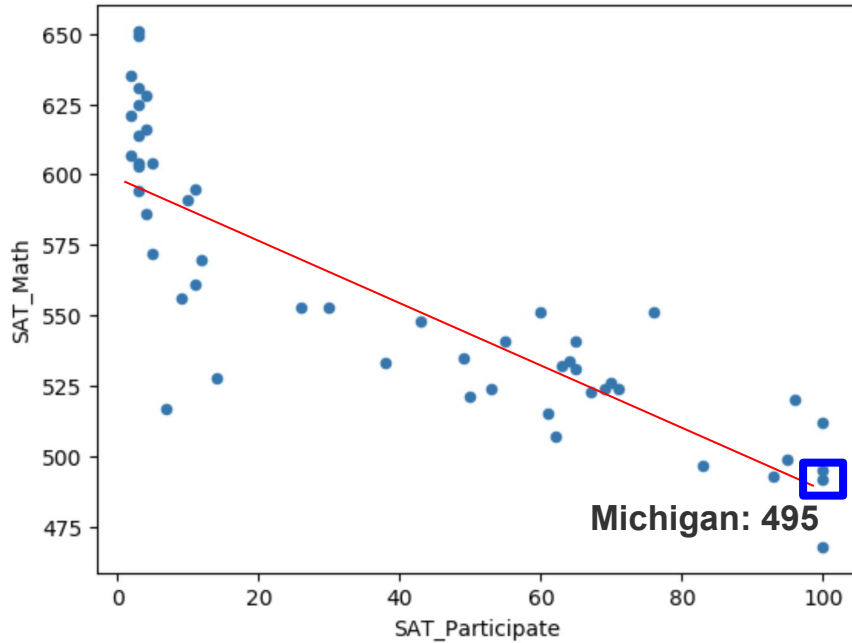
In any given state, for a one-percentage point increase in ACT participation, SAT participation decreases by 0.84 percentage points (Pearson's correlation coefficient).

Additional conclusions:

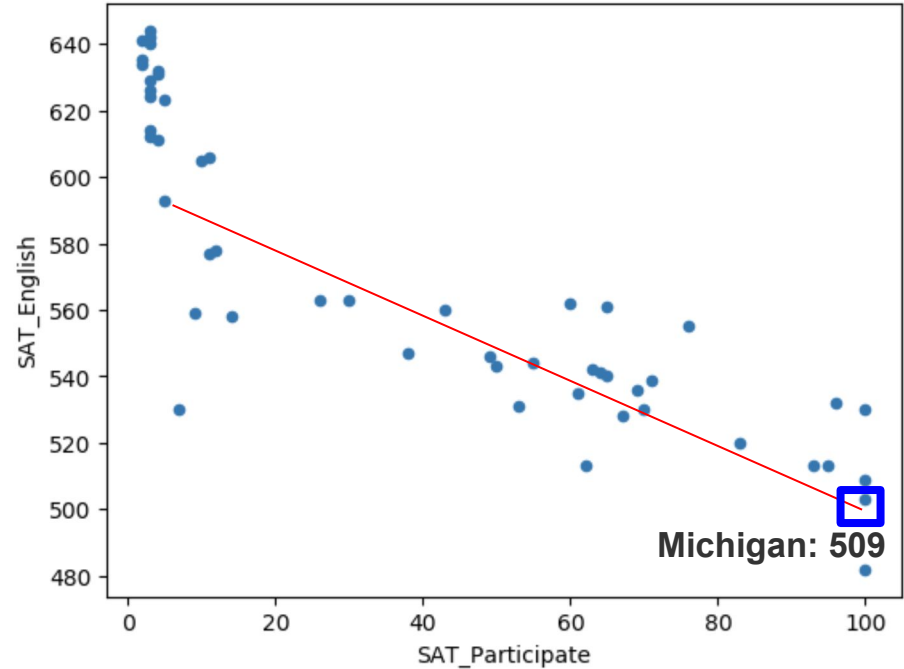
- States with a high mean score on one test tend to score high on the other
- Increased participation rates → decreased average test scores.

	English	Math	Participate
English	1.000000	0.987056	-0.874326
Math	0.987056	1.000000	-0.855091
Participate	-0.874326	-0.855091	1.000000

Higher participation is associated with lower scores



SAT Math



SAT English

Sources & Additional Research

- <https://collegereadiness.collegeboard.org/sat/k12-educators/sat-school-day/about>
- <https://reports.collegeboard.org/sat-suite-program-results/overview>
- <https://magoosh.com/hs/sat/2017/states-provide-sat-free/>
- <http://www.hanoverresearch.com/media/Best-Practices-to-Increase-SAT-Participation-1.pdf>

